Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-UW 4979	SERIAL NO. 09/972,834
	APPLICANT: Loeb et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: October 4, 2001	GROUP: 1656

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
✓		5,614,365	3/25/97	Tabor et al.	435	6	11/18/94
		5,945,312	8/31/99	Goodman et al.	435	91.1	11/7/97
		5,948,614	9/7/99	Chatterjee	435	6	9/6/96
		5,976,842	11/2/99	Wurst	435	91.2	10/30/97
✓		5,939,292	8/17/99	Gelfand et al.	435	91.2	8/5/97
✓		6,015,668	1/18/00	Hughes et al.	435	6	9/6/96

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
✓		EP 0416801	8/29/90	European			
		EP 0655506	11/24/96	European			
		EP 0727496	11/24/94	European			
		WO 91/02090	2/21/91	PCT			
		WO 95/14782	6/1/95	PCT			
		WO 95/33853	14/12/95	PCT	C12Q	1/68	
		WO 96/10640	4/11/96	PCT			
		WO 96/34980	11/7/96	PCT			
✓		WO 96/41014	19/12/96	PCT	C12Q	1/68	
✓		2302590	12/11/96	United Kingdom			

EXAMINER ✓	DATE CONSIDERED 4/28/02

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓		Barnes, "PCR amplification of up to 35-kb DNA with high-fidelity and high-yield from λ bacteriophage templates," Proc. Natl. Acad. Sci. USA, 91:2216-2220 (1994).
		Barnes, "The fidelity of *Taq* polymerase catalyzing PCR is improved by an N-terminal deletion," Gene, 112:29-35 (1992).
		Bebenek et al., "The Fidelity of DNA Synthesis Catalyzed by Derivatives of *Escheria coli* DNA Polymerase I," J. Biol. Chem., 265:13878-13887 (1990).
		Beese et al., "Structure of DNA polymerase I klenow fragment bound to duplex DNA," Science 260:352-355 (1993)
		Bell et al., "Base Miscoding and Strand Misalignment Errors by Mutator Klenow Polymerases with Amino Acid Substitutions at Tyrosine 766 in the O Helix of the Fingers Subdomain," J. Biol. Chem., 272:7345-7351 (1997).
		Braithwaite and Ito, "Compilation, alignment, and phylogenetic relationships of DNA polymerases," Nucleic Acids Res. 21:787-802 (1993)
		Carroll et al., "A mutant of DNA polymerase I (Klenow fragment) with reduced fidelity," Biochem., 30:804-813 (1991).
		Dong and Wang, "Mutational Studies of Human DNA Polymerase α ," J. Biol. Chem., 270:21563-21570 (1995).
✓		Drosopoulos and Prasad, "Increased Polymerase Fidelity of E89G, a Nucleoside Analog-Resistant Variant of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," J. Virol., 70:4834-4838 (1996).
✓		Dube et al., "Artificial mutants generated by the insertion of random oligonucleotides into the putative nucleoside binding site of the HSV-1 thymidine kinase gene," Biochemistry 30:11760-11767 (1991)

EXAMINER	DATE CONSIDERED
✓	4/28/05

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✓		Eger et al., "Mechanism of DNA Replication Fidelity for Three Mutants of DNA Polymerase I: Klenow Fragment (KF(exo⁻), KF(polA5), and KF(exo⁻, polA5)," Biochem., 30:1441-1448 (1991).
		Fry and Loeb, Animal Cell DNA Polymerases pp.157-183, CRC Press Boca Raton, FL (1986)
		Joyce and Steitz, "Function and structure relationships in DNA polymerases," Annu. Rev. Biochem. 63:777-822 (1994)
		Kim and Loeb, "Human immunodeficiency virus reverse transcriptase substitutes for DNA polymerase I in *Escherichia coli*," Proc. Natl. Acad. Sci. USA 92:684-688 (1995)
		Kim et al., "Crystal structure of *Thermus aquaticus* DNA polymerase," Nature 376:612-616 (1995)
		Kunkel, "DNA replication fidelity," J. Biol. Chem. 267:18251-18254 (1992)
		Kunkel, "Rapid and efficient site-specific mutagenesis without phenotypic selection," Proc. Natl. Acad. Sci. USA 82:488-492 (1985)
		Kunkel and Loeb, "On the fidelity of DNA replication: effect of divalent metal ion activators and deoxyribonucleoside triphosphate pools on *in vitro* mutagenesis," J. Biol. Chem. 254:5718-5725 (1979)
		Lawyer et al., "Isolation, Characterization, and Expression in *Escheria coli* of the DNA Polymerase Gene from *Thermus aquaticus*, J. Biol. Chem., 264:6427-6437 (1989).
✓		Loeb, "Microsatellite Instability: Marker of a Mutator Phenotype in Cancer," Cancer Research 54:5059-5063 (1994)
✓		Loeb, "Unnatural nucleotide sequences in biopharmaceutics," Advances in Pharmacology 35:321-347 (1996)
✓		Newcomb et al., "High Fidelity Taq Polymerases For Mutation Detection," FASEB J. 11:A1249, abstract 2295 (1997)

EXAMINER	DATE CONSIDERED 4/28/05

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✓		Pandey et al., "Role of Methionine 184 of Human Immunodeficiency Virus Type-1 Reverse Transcriptase in the Polymerase Function and Fidelity of DNA Synthesis," Biochem., 35:2168-2179 (1996).
		Reha-Krantz and Nonay, "MotifA of Bacteriophage T4 DNA Polymerase: Role in Primer Extension and DNA Replication Fidelity," J. Biol. Chem., 269:5635-5643 (1994).
		Suzuki et al., "Low Fidelity Mutants in the O-Helix of *Thermus aquaticus* DNA Polymerase I," J. Biol. Chem. 272:11228-11235 (1997)
		Suzuki et al., "Random mutagenesis of *Thermus aquaticus* DNA polymerase I: concordance of immutable sites *in vivo* with the crystal structure," Proc. Natl. Acad. Sci. USA 93:9670-9675 (1996)
		Sweasy and Loeb, "Mammalian DNA polymerase β can substitute for DNA polymerase I during DNA replication in *Escherichia coli*," J. Biol. Chem. 267:1407-1410 (1992)
		Tabor and Richardson, "A single residue in DNA polymerases of the *Escherichia coli* DNA polymerase I family is critical for distinguishing between deoxy- and dideoxyribonucleotides," Proc. Natl. Acad. Sci. USA 92:6339-6343 (1995)
		Tindall and Kunkel, "Fidelity of DNA synthesis by the *Thermus aquaticus* DNA polymerase," Biochemistry 27:6008-6013 (1988)
✓		Wainberg et al., "Enhanced Fidelity of 3TC-Selected Mutant HIV-1 Reverse Transcriptase," Science, 271:1282-1285 (1996).
✓		Washington et al., "A genetic system to identify DNA polymerase β mutator mutants," Proc. Natl. Acad. Sci. USA, 94:1321-1326 (1997).

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